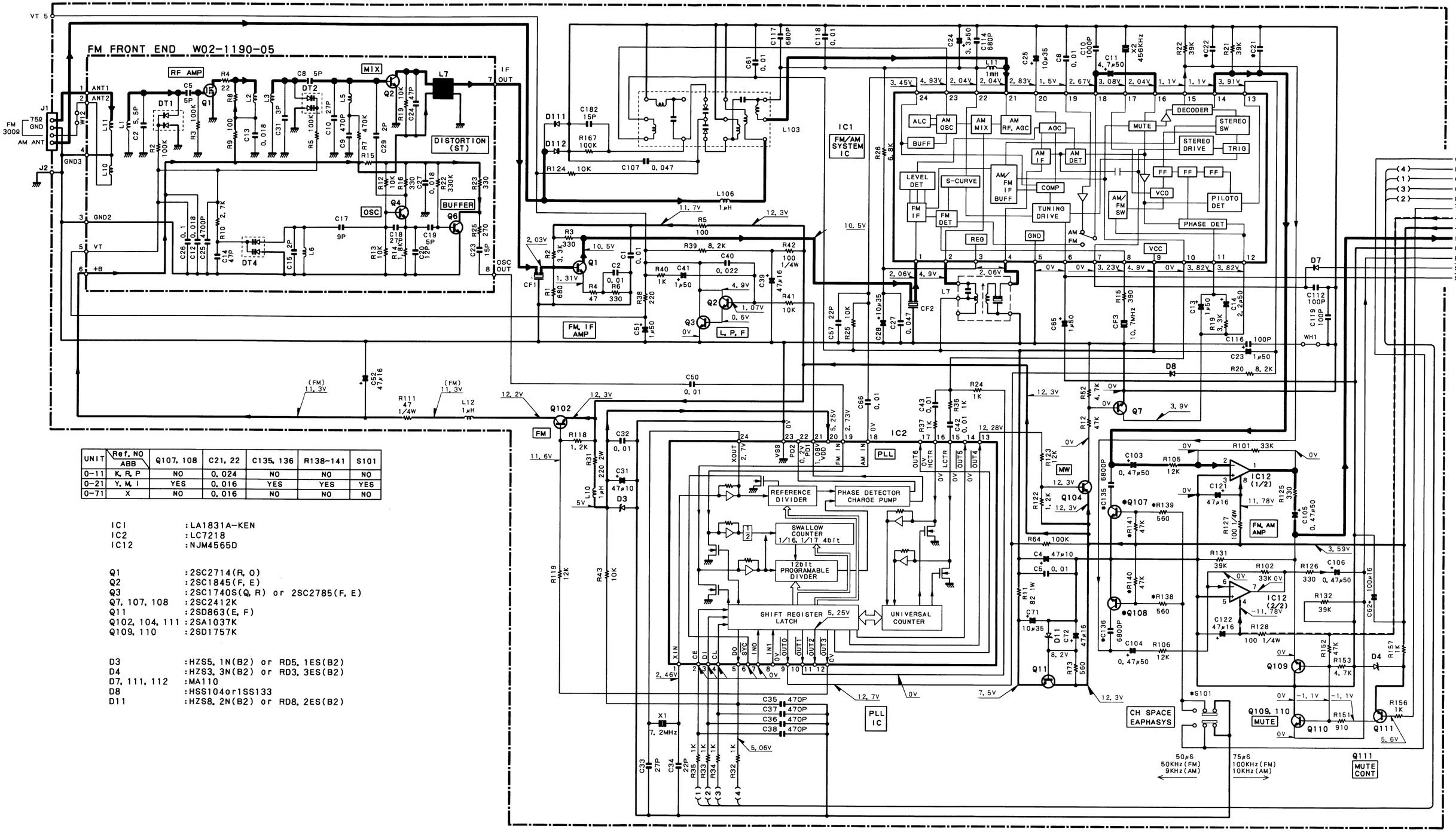
KENWOOD RXDC3L

MODEL

SERVICE MANUAL

X29-2490-XX (K, R, P, Y, M, I, X TYPE) TUNER



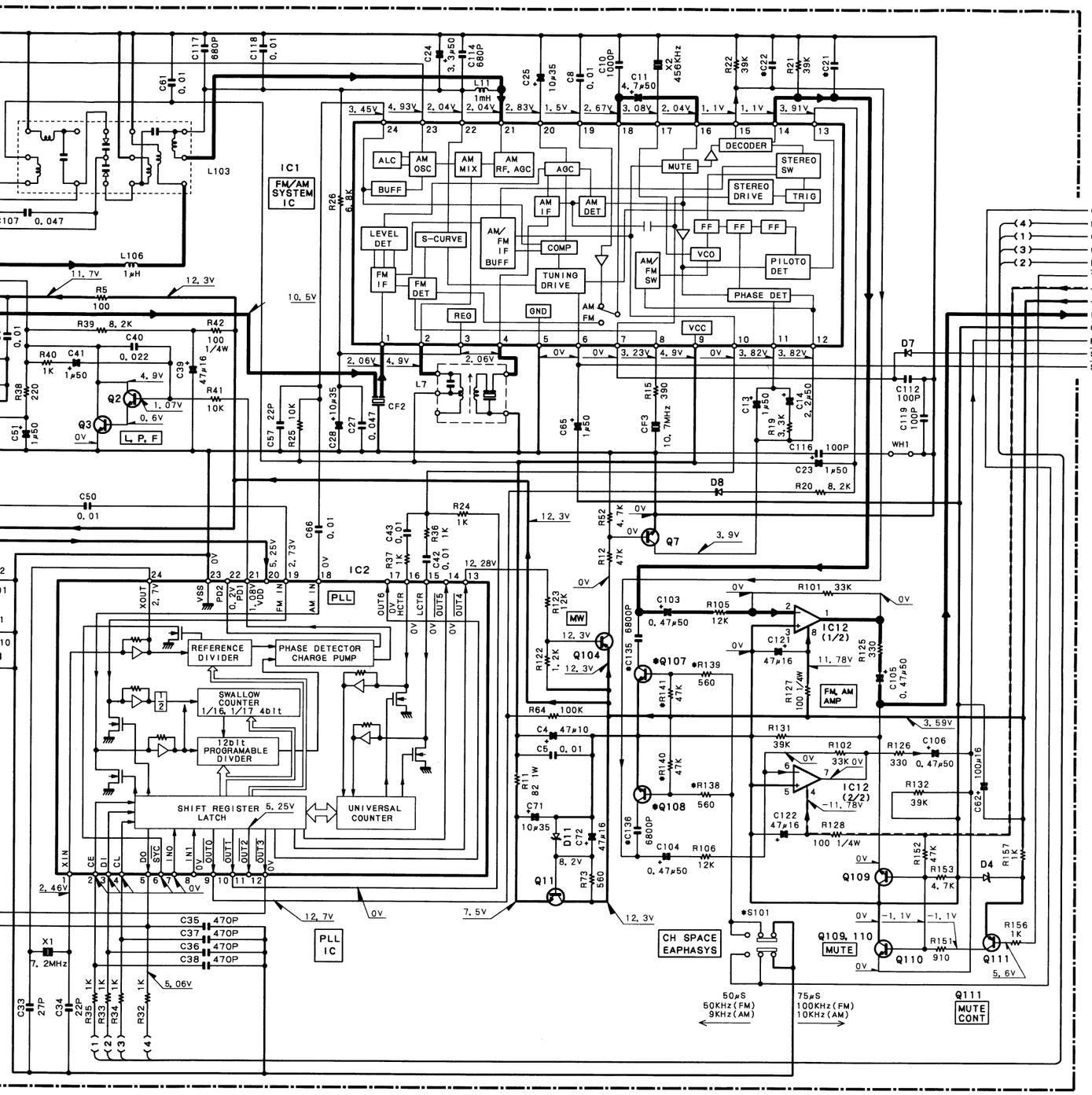
UNIT	Ref. NO / ABB	Q107, 108	C21, 22	C135, 136	R138-141	S101
0-11	K, R, P	NO	0.024	NO	NO	NO
0-21	Y, M, I	YES	0.016	YES	YES	YES
0-71	X	NO	0.016	NO	NO	NO

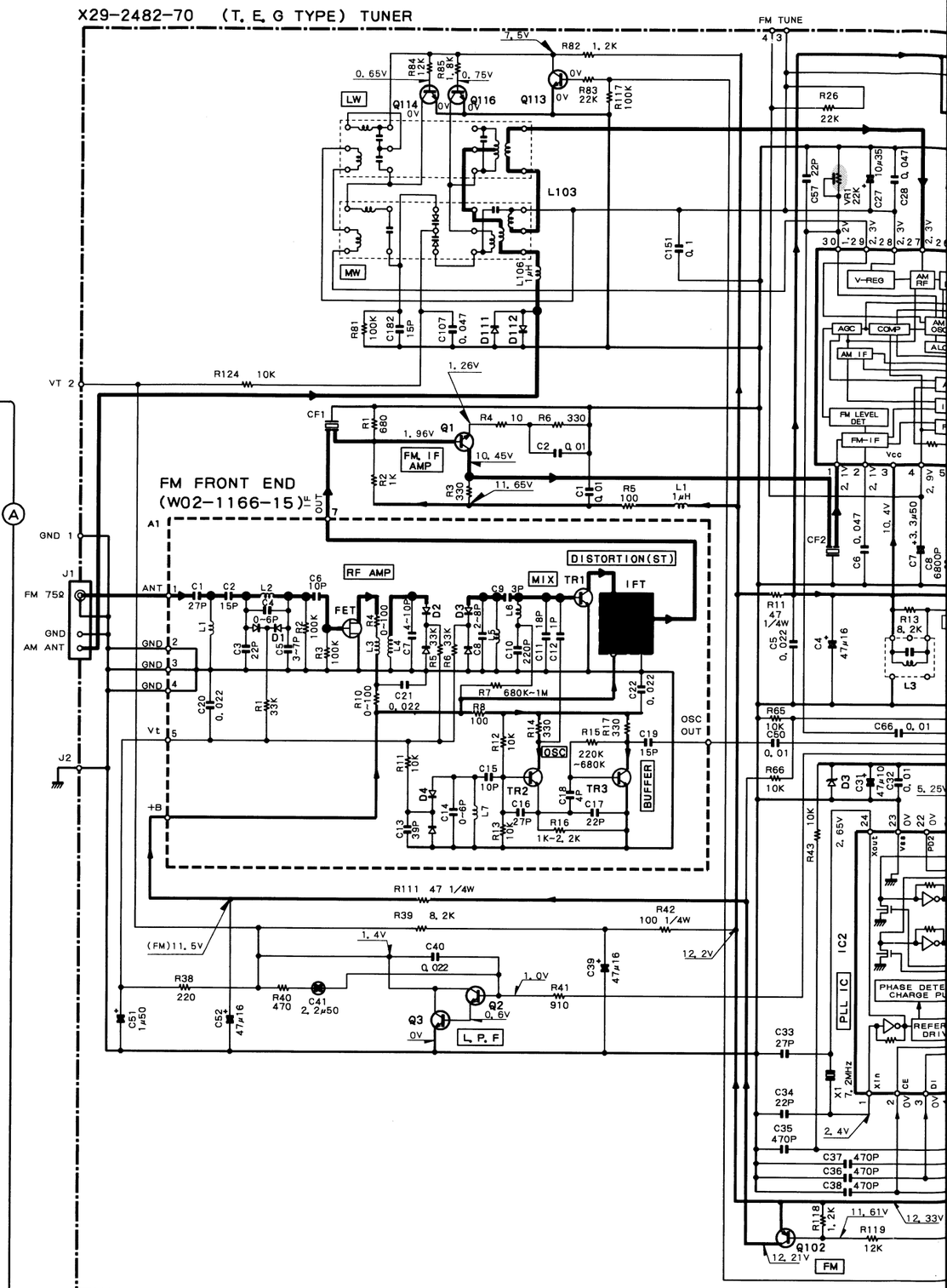
IC1 :LA1831A-KEN
IC2 :LC7218
IC12 :NJM4565D

Q1 :2SC2714(R, O)
Q2 :2SC1845(F, E)
Q3 :2SC1740S(Q, R) or 2SC2785(F, E)
Q7, 107, 108 :2SC2412K
Q11 :2SD863(E, F)
Q102, 104, 111 :2SA1037K
Q109, 110 :2SD1757K

D3 :HZS5, 1N(B2) or RD5, 1ES(B2)
D4 :HZS3, 3N(B2) or RD3, 3ES(B2)
D7, 111, 112 :MA110
D8 :HSS104or1SS133
D11 :HZS8, 2N(B2) or RD8, 2ES(B2)

X29-2482-70 (T, E, G TYPE) TUNER



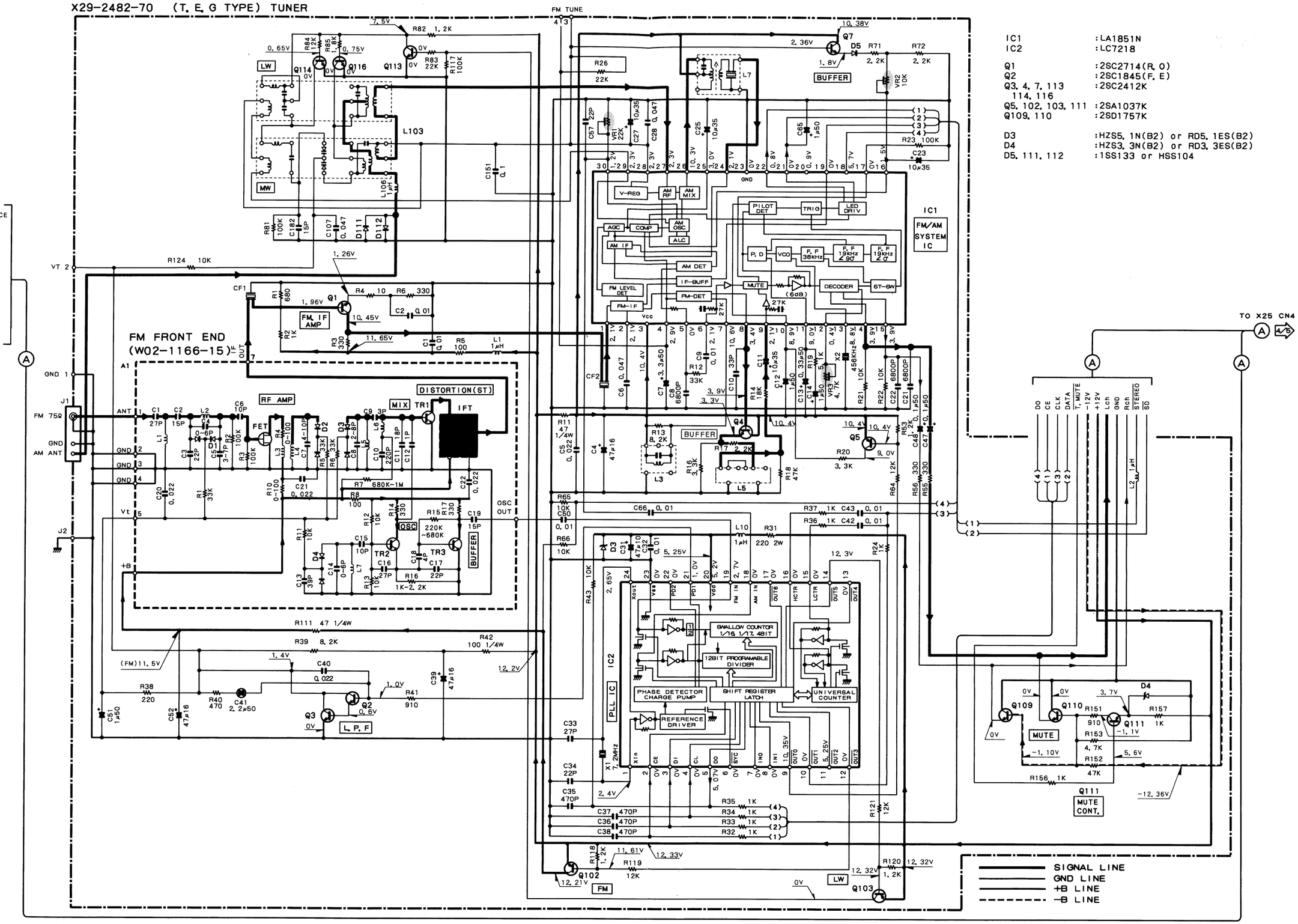


DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegeben hochohmigen ken die Meßwe zelnen Instrume

X29-2482-70 (T, E, G TYPE) TUNER



IC1	:LA1851N
IC2	:LC7218
Q1	:2SC2714(R, O)
Q2	:2SC1845(F, E)
Q3, 4, 7, 113, 114, 116	:2SC2412K
Q5, 102, 103, 111	:2SA1037K
Q109, 110	:2SD1757K
D3	:HZS5, 1N(B2) or RD5, 1ES(B2)
D4	:HZS3, 3N(B2) or RD3, 3ES(B2)
D5, 111, 112	:1SS133 or HSS104

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

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Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y39-2030-11

RXD-C3/C3L

KENWOOD

X29-24XX-XX(A/5) DECK

UNIT	ABB
90-11	K, R, P
90-21	Y, M, I
90-71	X, T
82-70	E, G

CDM-27
GC-300

KSS-210A

PICK UP

KSM-2101ABM

TU ASSY

PICK RAZER APC

LOW PASS FILTER

RF AMP
IC201
(BOTTOM VIEW)

DC SERVO ON/OFF

DSP, RF AMP, ON/OFF

DAC
IC203
(BOTTOM VIEW)

CD μ-COM
IC204
(BOTTOM VIEW)

ROTARY DRIVER

DRIVER
IC202

IC205

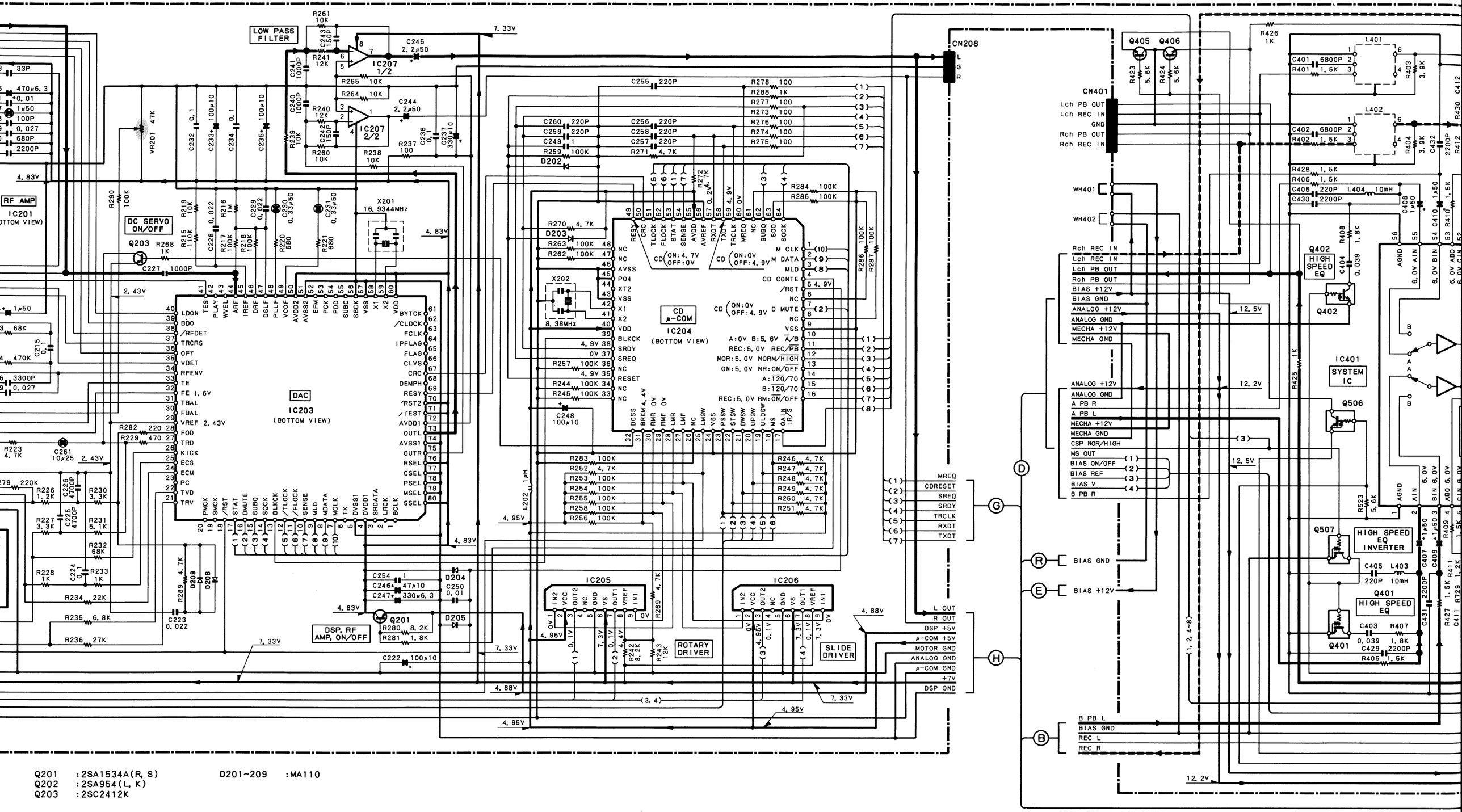
IC206

IC207 1/2

IC207 2/2

IC201	:AN8806SB	IC204	:μPD78012BGC-634	Q201	:2SA1534A(R, S)	D201~209	:MA110
IC202	:BA6398FP	IC205, 206	:TA8409S	Q202	:2SA954(L, K)		
IC203	:MN66271RA	IC207	:NJM2100M	Q203	:2SC2412K		

Die angegebenen
hochohmigen Spa
ken die Meßwerte
zelnen Instrumente



Q201 :2SA1534A(R, S)
Q202 :2SA954(L, K)
Q203 :2SC2412K

D201~209 :MA110

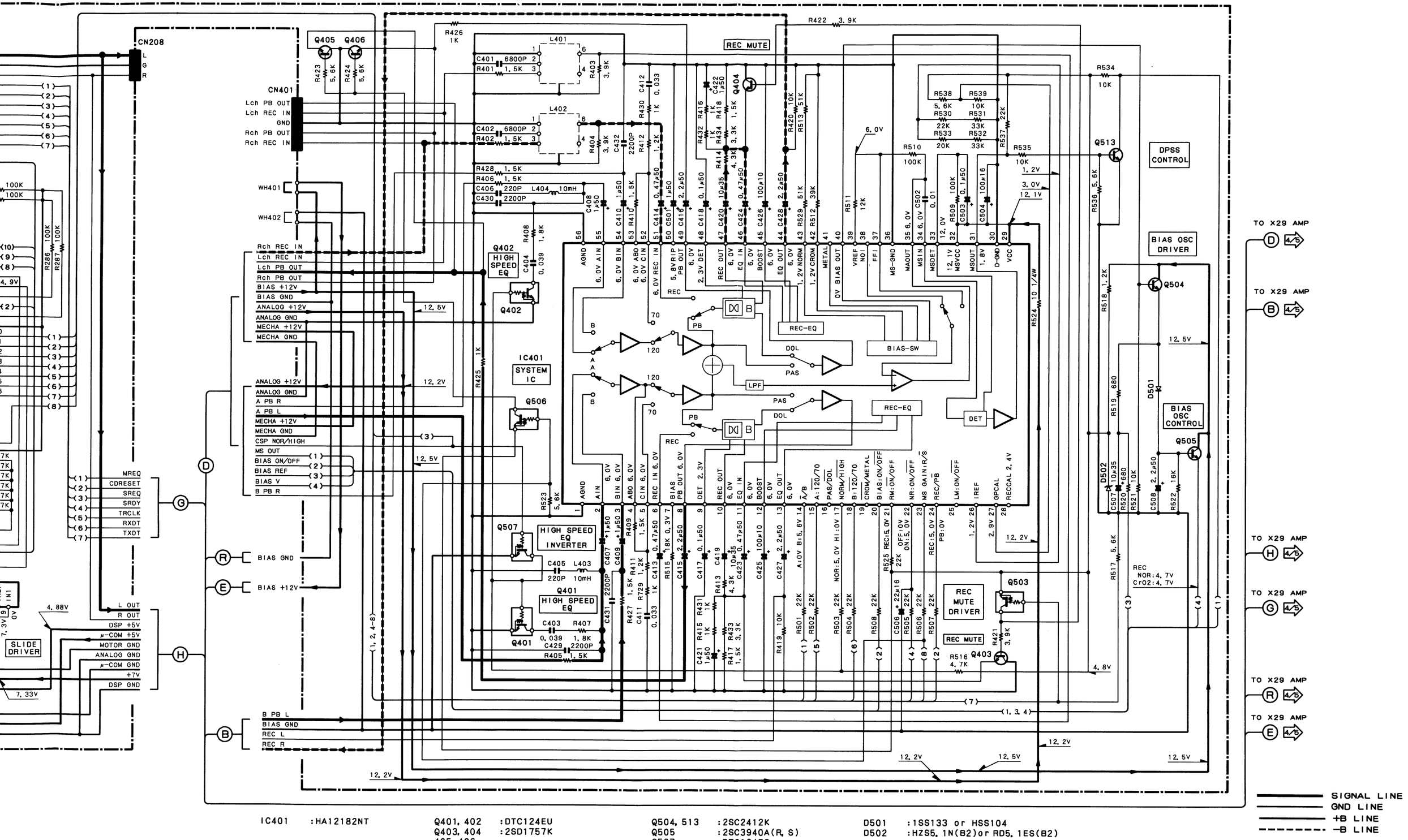
IC401 :HA12182NT

Q401, 402 :DTC124EU
Q403, 404 :2SD1757K
405, 406
Q503, 506 :DTA124ES or UN4112

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées a haute impédance. Les valeurs peuvent diff fait des variations inhérentes aux appareils de mesure individuels.



IC401 :HA12182NT

Q401, 402 :DTC124EU
Q403, 404 :2SD1757K
405, 406
Q503, 506 :DTA124ES or UN4112

Q504, 513 :2SC2412K
Q505 :2SC3940A(R, S)
Q507 :DTC124ES

D501 :1SS133 or HSS104
D502 :HZS5, 1N(B2)or RD5, 1ES(B2)

SIGNAL LINE
GND LINE
+B LINE
−B LINE

eichspannungswerte wurden mit einem ungsmesser gemessen. Dabei schwan- fgrund von Unterschieden zwischen ein- der Geräten u. U. geringfügig.

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Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

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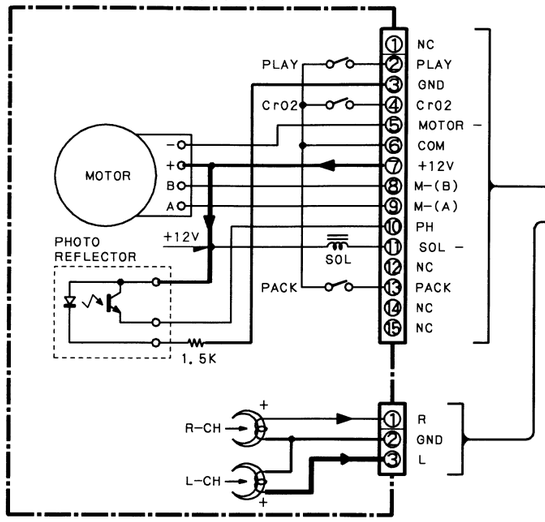
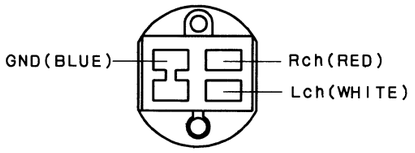
Y39-2030-11

RXD-C3/C3L

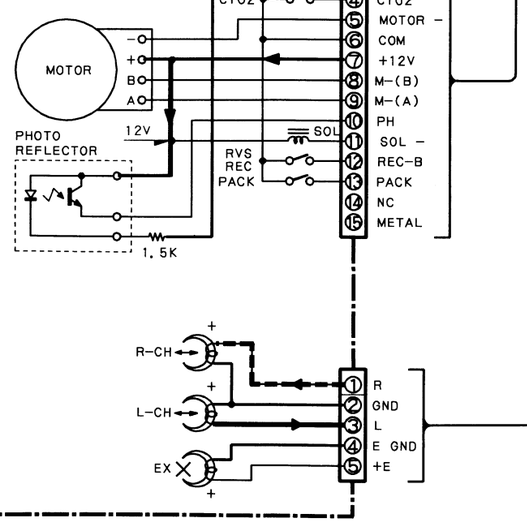
KENWOOD

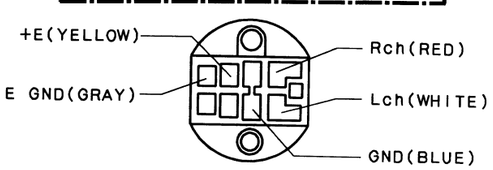
(A MECHA X92-1940-00)
A MECHA D40-1343-05
MECHA PCB X28-2620-00

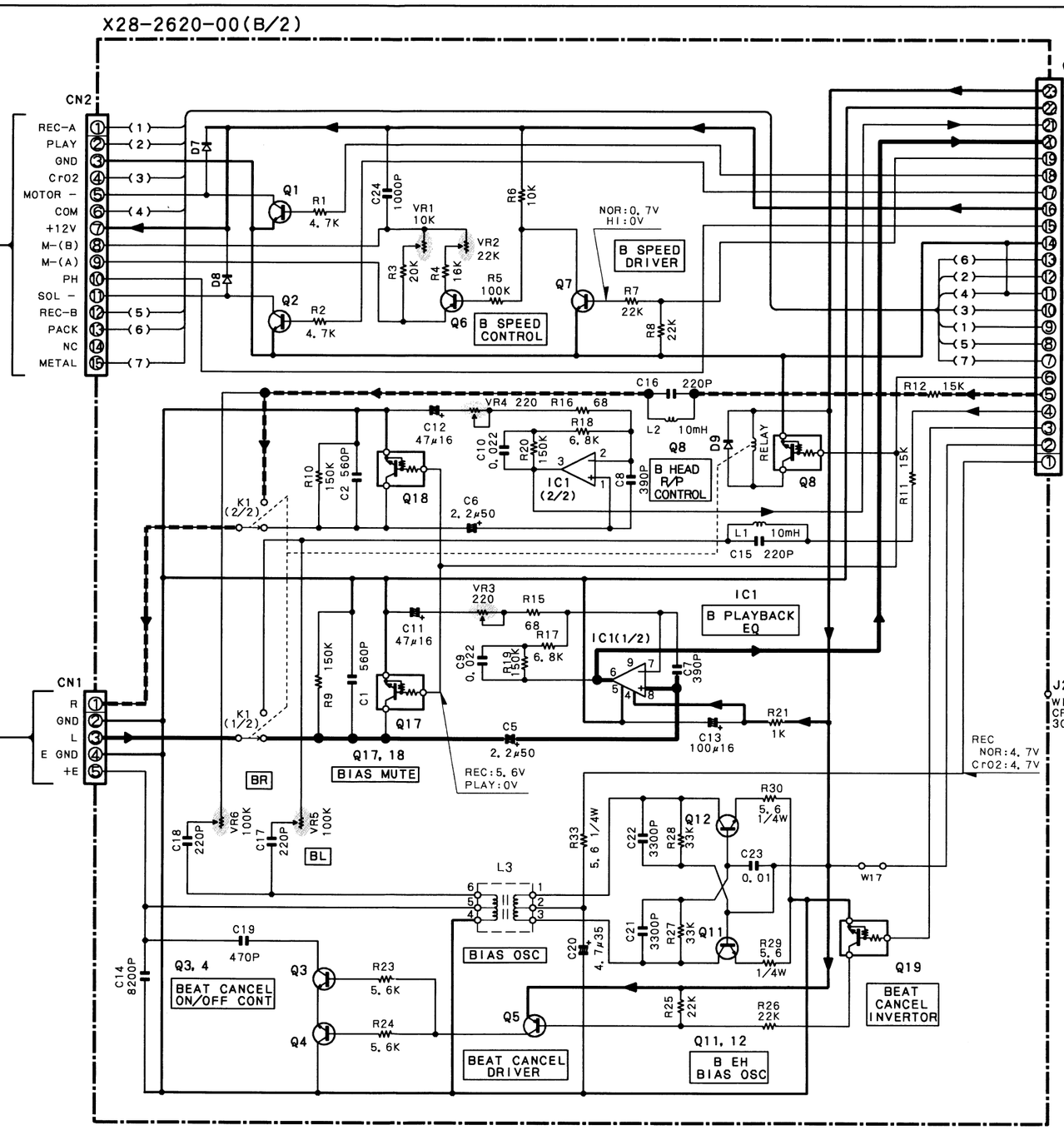




(B MECHA X92-1950-00)
B MECHA D40-1345-05
MECHA PCB X28-2620-00



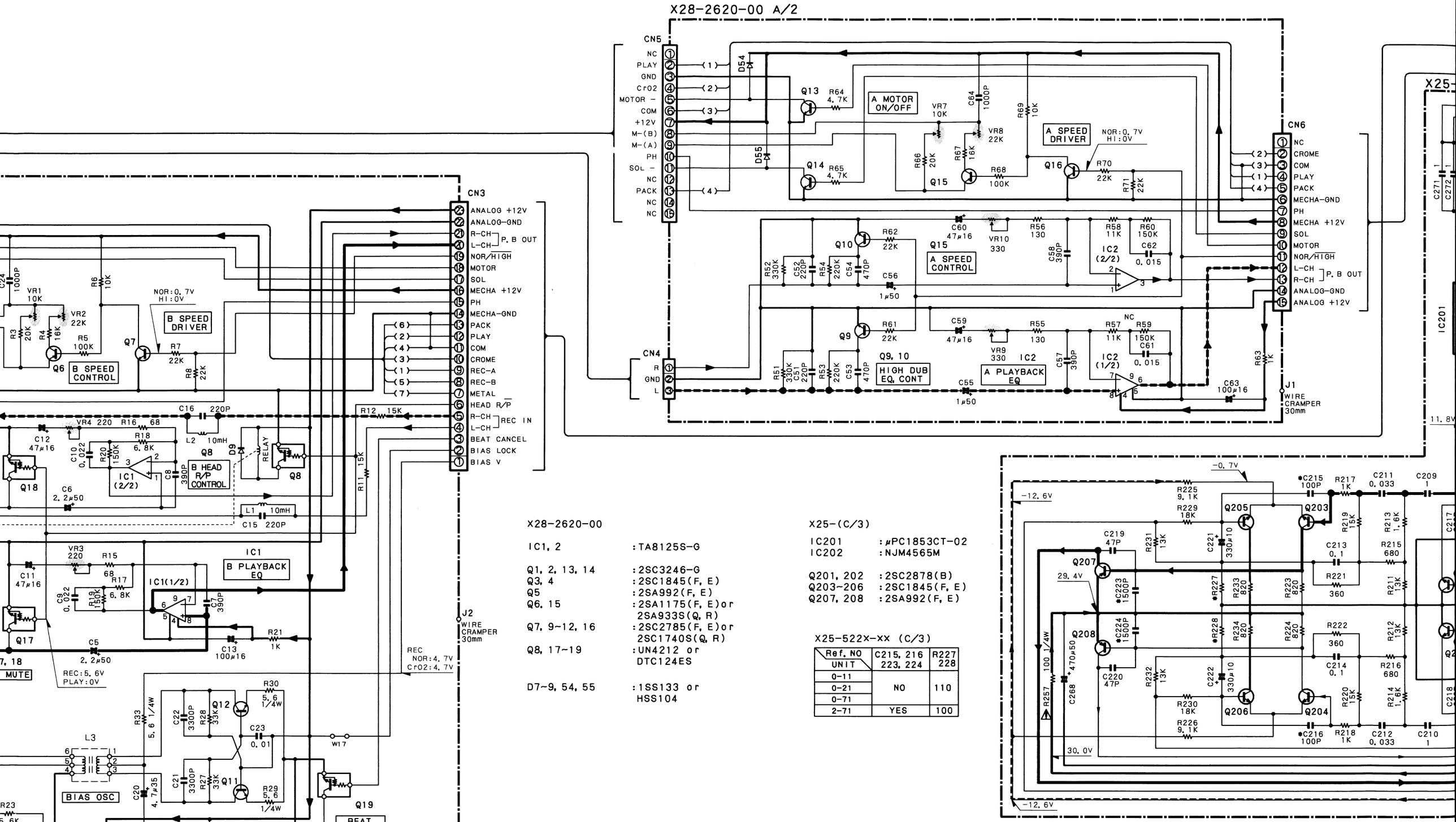




X28-2620-00

IC1, 2	:TA8125S-G
Q1, 2, 13, 14	:2SC3246-G
Q3, 4	:2SC1845(F, E)
Q5	:2SA992(F, E)
Q6, 15	:2SA1175(F, E)or 2SA933S(Q, R)
Q7, 9~12, 16	:2SC2785(F, E)or 2SC1740S(Q, R)
Q8, 17~19	:UN4212 or DTC124ES
D7~9, 54, 55	:1SS133 or HSS104

X28-2620-00 A/2



X28-2620-00

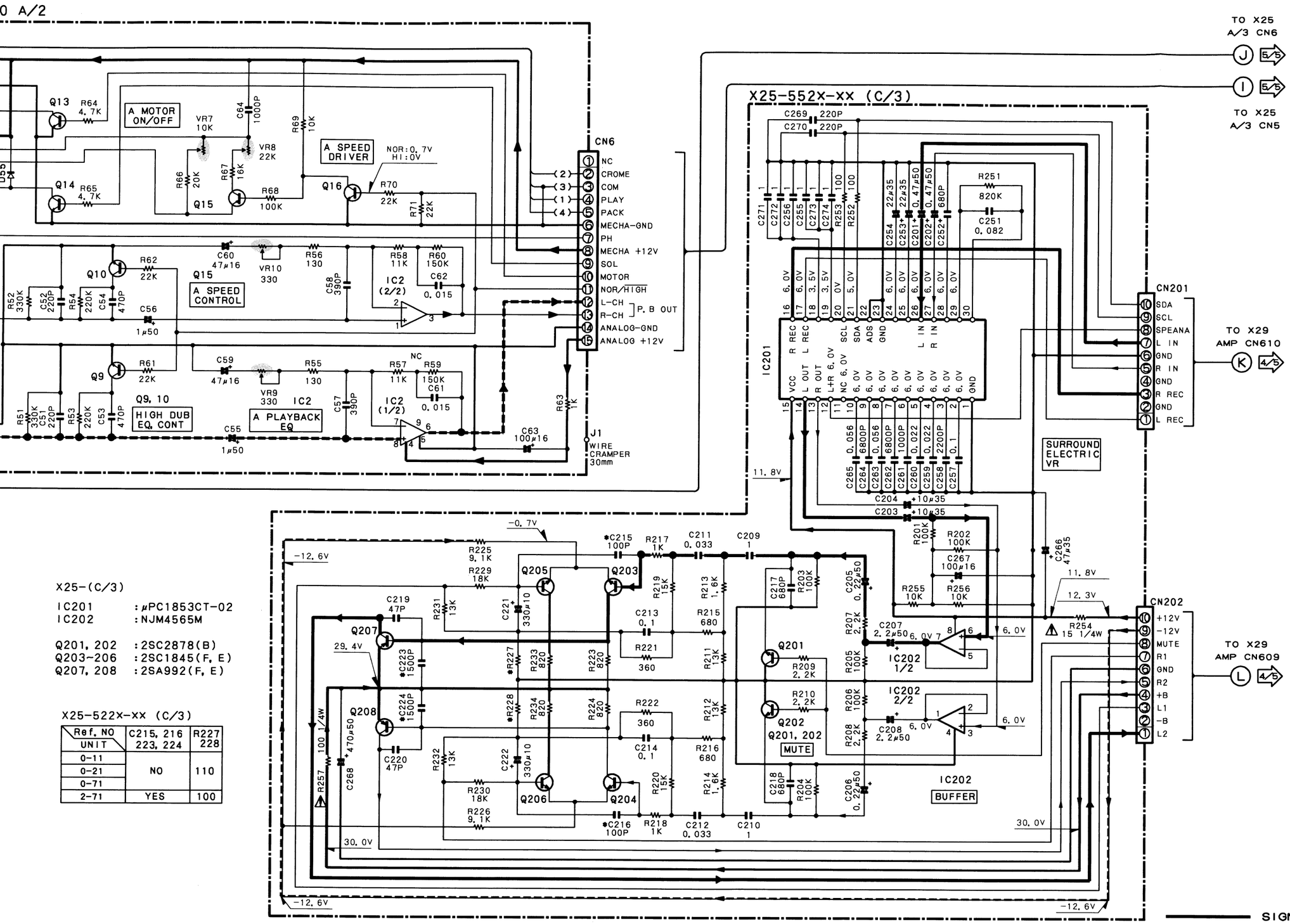
IC1, 2	:TA8125S-G
Q1, 2, 13, 14	:2SC3246-G
Q3, 4	:2SC1845(F, E)
Q5	:2SA992(F, E)
Q6, 15	:2SA1175(F, E)or 2SA933S(Q, R)
Q7, 9~12, 16	:2SC2785(F, E)or 2SC1740S(Q, R)
Q8, 17~19	:UN4212 or DTC124ES
D7~9, 54, 55	:1SS133 or HSS104

X25-(C/3)

IC201	:μPC1853CT-02
IC202	:NJM4565M
Q201, 202	:2SC2878(B)
Q203~206	:2SC1845(F, E)
Q207, 208	:2SA992(F, E)

X25-522X-XX (C/3)

Ref. NO / UNIT	C215, 216 223, 224	R227 228
0-11	NO	110
0-21		
0-71		
2-71	YES	100



X25-(C/3)

IC201	:μPC1853CT-02
IC202	:NJM4565M
Q201, 202	:2SC2878(B)
Q203-206	:2SC1845(F, E)
Q207, 208	:2SA992(F, E)

X25-522x-xx (C/3)

Ref. NO / UNIT	C215, 216 223, 224	R227 228
0-11	NO	110
0-21		
0-71		
2-71	YES	100

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3/5

Y39-2030-11

RXD-C3/C3L

KENWOOD

X29-24XX-XX AMP A/5

TO X25 C/3 CN201 (3/5) K
TO X25 C/3 CN202 (3/5) L
TO X29 DECK (2/5) D
TO X29 TUNER (1/5) A
TO X29 DECK (2/5) B
TO X29 DECK (2/5) H
TO X29 DECK (2/5) G
TO X29 DECK (2/5) R
TO X29 DECK (2/5) E
TO X29 DECK (2/5) F
TO X29 DECK (2/5) P

CN402: ANALOG +12V, ANALOG GND, A PB R, A PB L, MECHA +12V, MECHA GND, CSP NORM/HIGH, MS OUT, BIAS ON/OFF, BIAS REF, BIAS V, B PB R
CN403: B PB L, BIAS GND, REC L, REC R, CH-SPACE, TUNER MUTE, STEREO, SD, DO, PLL-CE, PULL-DATA, PLL-CLK
CN404: BIAS +12V, BIAS GND, -30V, AC (FL), AC (FL), F. OFF, SPEAKER PROTECT, MUTE, POWER, D. GND, 5. 6V
CN405: SCL, SEL ST, SEL DAT, SEL CLK, SDA, M-REQ, CD-RESET, S-REQ, SRDY, TRCLK, RXDT, TXDT

IC601 INPUT SELECTOR HIT MASTER ON/OFF REC ON/OFF
IC602 HIT MASTER IC
IC604(2/2) IC604(1/2)
IC606(1/2) IC606(2/2)
IC605

Q601 Q602 Q603 Q604 Q605 Q606 Q607 Q608 Q609 Q611 Q612, 613 VOLTAGE LIMITER Q614 Q615 Q617 Q618 Q619 Q620 Q621 Q622 Q623 MUTE DRIVER Q624 Q625 Q626 PROTECTION
Q603-606 POWER Tr
Q607, 608 LIMITER

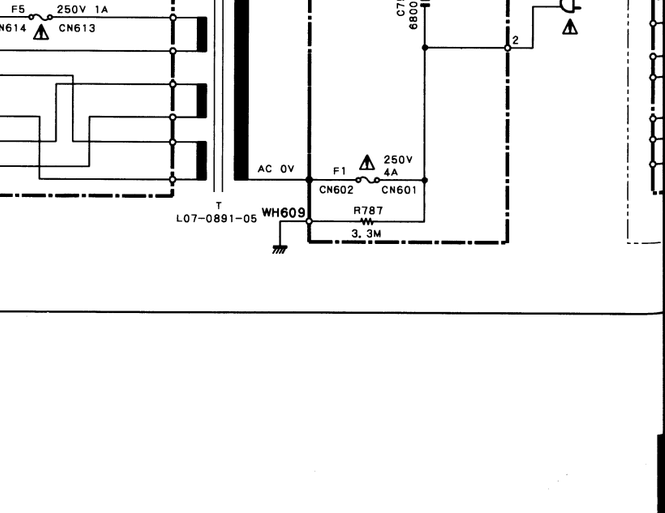
D601 D602 D603 D604 D605 D606 D607 D608 D609 D610 D611 D612 D613 D616 D617 D618 D619 D620 D621 D630 D631 D632 D633 D634 D635 D636 D640 D641

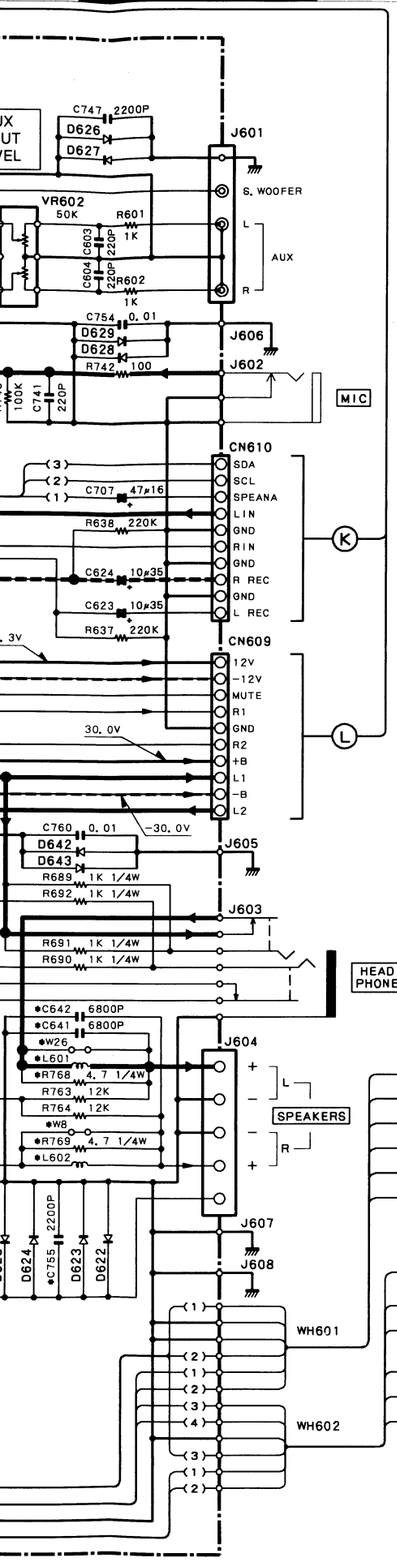
AVR +7V
AVR +12V
AVR-30V
Tr SW 12V ON/OFF
MIC BUFF
LPF
VOLTAGE LIMITER

CHASSIS GND

X29-24XX-XX

IC601	: NJU7313AM	Q601, 602	: 2SC4137(V, W)
IC602	: CXA1642M	Q603, 604	: 2SD2493
IC604	: NJM4565M	Q605, 606	: 2SB1624
IC605	: TA78057S	Q607, 608	: 2SC1845(F, E)
		Q609	: 2SD1893
		Q612, 613, 621 622, 625, 626	: 2SC2412K
		Q611	: 2SC3246(H, J)
		Q614	: 2SA954(L, K)
		Q615-617	: 2SA1037K
		Q618, 620, 624	: 2SD2012
		Q619, 623	: 2SA933S(Q, R)





X29-24xx-xx

IC601	:NJU7313AM	Q601, 602	:2SC4137(V, W)	D601, 602, 611, 612	:1SS133 or HSS104
IC602	:CXA1642M	Q603, 604	:2SD2493	619, 620, 631, 641	
IC604	:NJM4565M	Q605, 606	:2SB1624	D603	:D3SBA20F03 or RBV-402LFA
IC605	:TA78057S	Q607, 608	:2SC1845(F, E)	D604	:1SS131 or HSS104A
		Q609	:2SD1893	D605, 607~610	:S5688B or 1SR139-100
		Q612, 613, 621	:2SC2412K	630, 631	
		622, 625, 626		D606	:KBP02ML-6127
		Q611	:2SC3246(H, J)	D613, 618	:HZS6, 8N(B2) or RD6, 8ES(B2)
		Q614	:2SA954(L, K)	D614	:HZS16N(B2) or RD16ES(B2)
		Q615~617	:2SA1037K	D615, 616	:HZS13N(B2) or RD13ES(B2)
		Q618, 620, 624	:2SD2012	D617	:HZS2, 7N(B2) or RD2, 7ES(B2)
		Q619, 623	:2SA933S(Q, R)	D621	:HZS3, 9N(B2) or RD3, 9ES(B2)
				D622~629, 632	:MA110
				633, 635, 636	
				D634	:HZS5, 1N(B2) or RD5, 1ES(B2)
				D640	:HZS10N(B2)

X29-24xx-xx

UNIT	Ref. NO / ABB	C635, 636	C637, 638 C641, 642 C755, 756	R768, 769	L601, 602
90-11	K, R, P	0.047μ	NO	NO	NO
90-21	Y, M, I				
90-71	X				
82-70	T, E, G	0.1μ	YES	YES	YES

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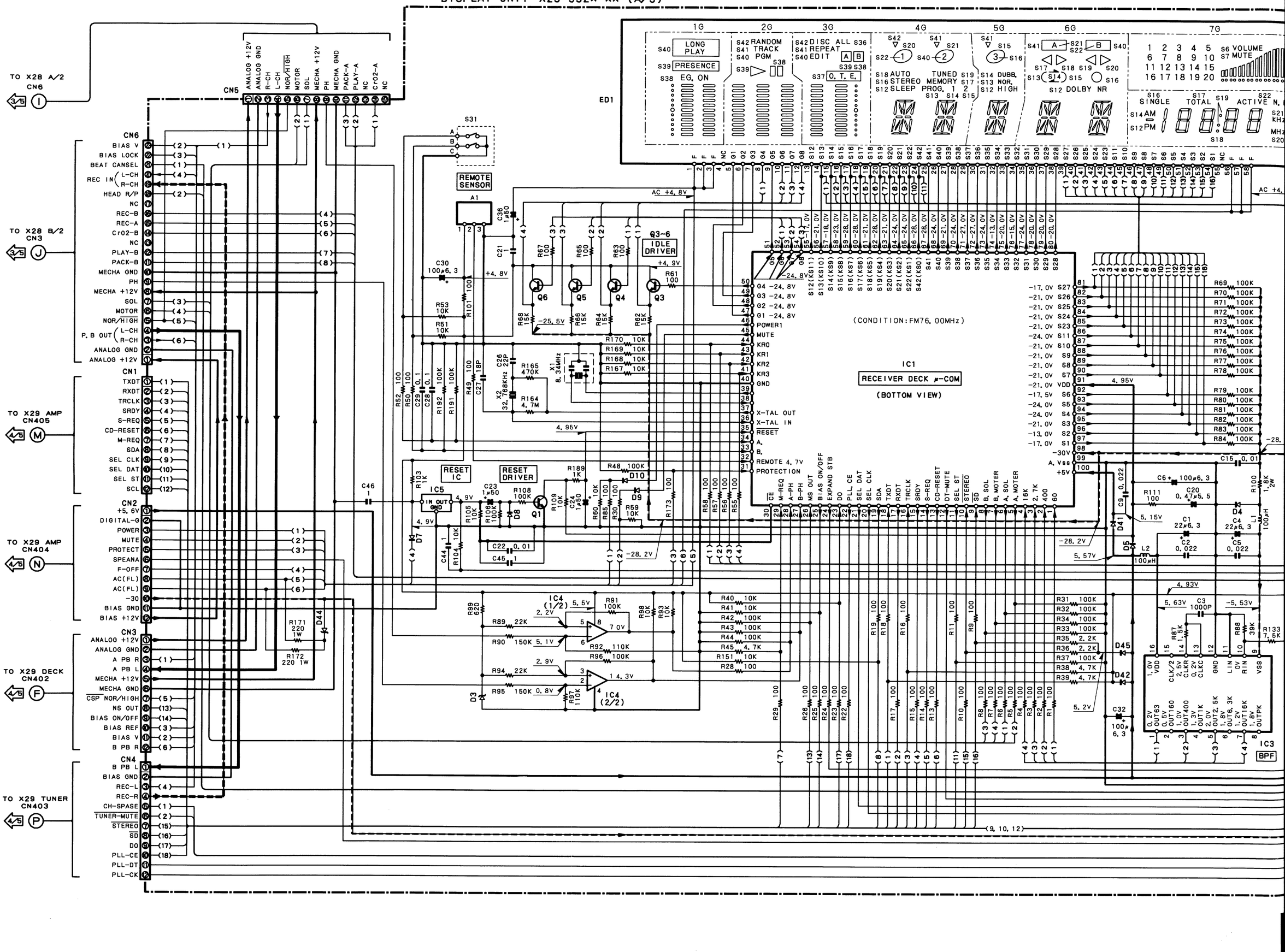
Y39-2030-11

RXD-C3/C3L

KENWOOD

DISPLAY UNIT X25-552x-xx (A/3)



DISPLAY UNIT X25-552X-XX (A/3)

ED1

1G LONG PLAY / PRESENCE / EG. ON
2G RANDOM / TRACK PGM
3G DISC ALL / REPEAT / EDIT / O. T. E.
4G AUTO TUNED / STEREO MEMORY / SLEEP PROG. 1 2
5G DUBB. / NOR. / HIGH
6G DOLBY NR
7G VOLUME / MUTE / SINGLE / TOTAL / ACTIVE N. B. / AM / PM / kHz / MHz
8G

1G 2G 3G 4G 5G 6G 7G

S31 REMOTE SENSOR A1

Q3-6 IDLE DRIVER

RESET IC IC5 RESET DRIVER

IC4 (1/2) (2/2)

IC1 RECEIVER DECK μ-COM (BOTTOM VIEW)

(CONDITION: FM76.00MHz)

IC2 EXPANDER IC

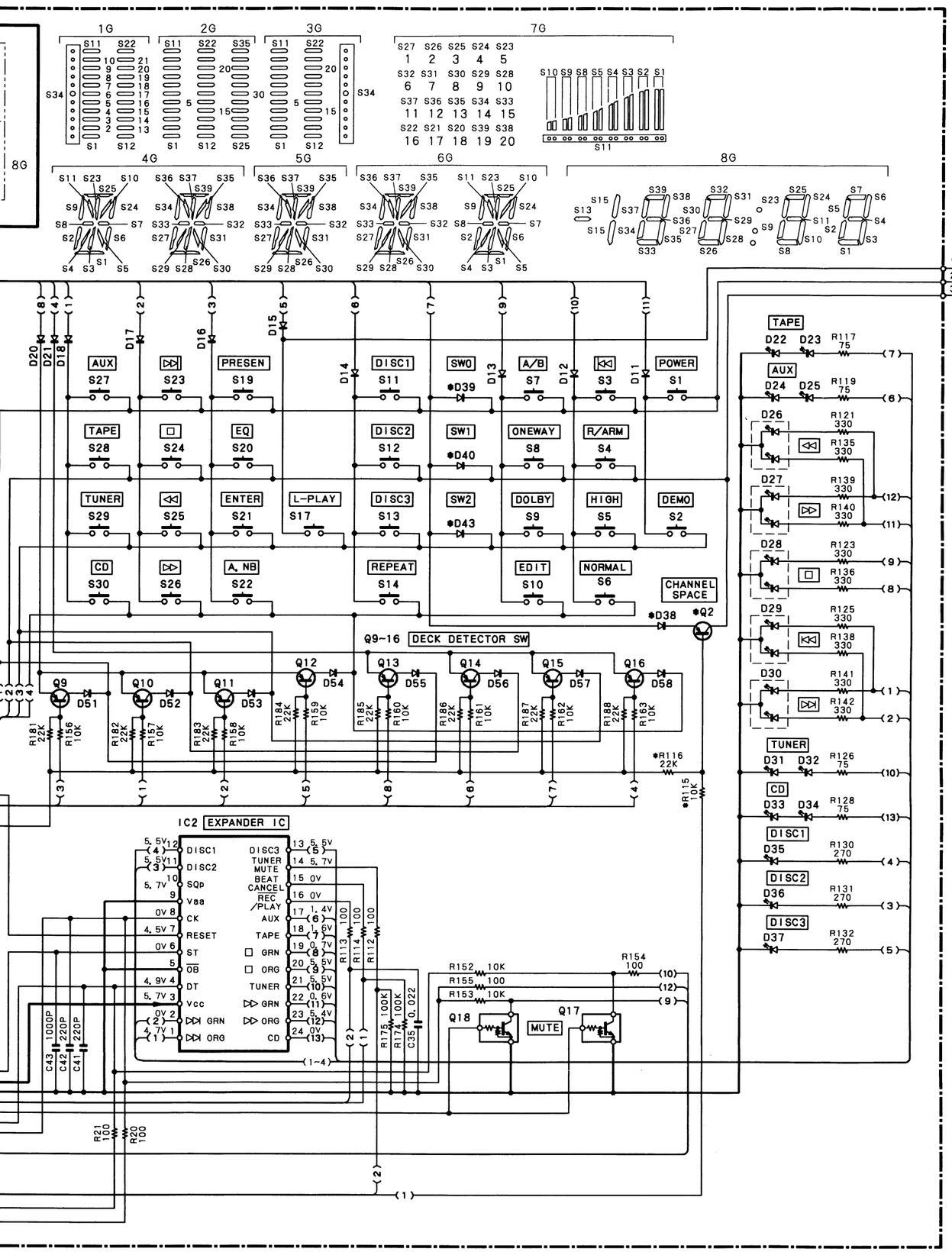
IC3 BPF

Q9-16 DECK DETECTOR SW

AUX S27 / TAPE S28 / TUNER S29 / CD S30 / PRESEN S19 / EQ S20 / ENTER S21 / A.NB S22 / DISC1 S11 / DISC2 S12 / DISC3 S13 / REPEAT S14 / SW0 D39 / SW1 D40 / SW2 D43 / ONEWAY S8 / DOLBY S9 / EDIT S10 / A/B S7 / R/ARM S4 / HIGH S5 / NORMAL S6 / POWER S1 / DEMO S2 / D38

MUTE Q17 Q18

AC +4.8V
+4.9V
+4.8V
−25.5V
4.95V
−28.2V
5.15V
5.57V
4.93V
5.63V
−5.53V
5.2V
−24.8V
(9, 10, 12)
(1~4)



X25-(A/3)

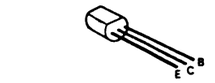
IC1	:M38197MA-077FP
IC2	:M66310FP
IC3	:XR-1091FCP
IC4	:BA10393F
IC5	:S-80740AL
Q1, 3-6	:2SC2412K
Q2, 9-16	:2SA1037K
Q17, 18	:DTC124EU
D3	:HZS2, 7N(B2) or RD2, 7ES(B2)
D4, 44	:HZS5, 6N(B2) or RD5, 6ES(B2)
D5, 7, 9-21, 42	:1SS131 or HSS104A
D8, 38-41, 43 45, 51-58	:MA111
D22-25, 31-37	:B30-2462-05
D26-30	:B30-2463-05
ED1	:FIP8QMW5R

X25-522x-xx (A/3)

UNIT	Ref. NO / ABB	R115 116	Q2	D38	D39	D40	D43
0-11	K, R, P	NO	NO	NO	NO	NO	NO
0-21	Y, M, I	YES	YES	YES	YES		
2-71	T, E, G	NO	NO	NO	NO		YES
0-71	X				YES	YES	NO

SIGNAL LINE
GND LINE
+B LINE
-B LINE

RXD-C3 (5/5) (K)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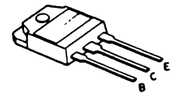
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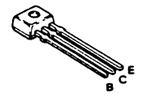
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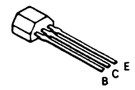
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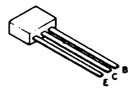
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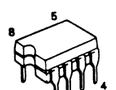
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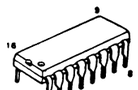
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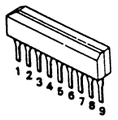
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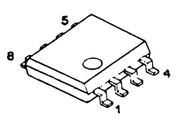
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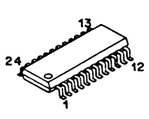
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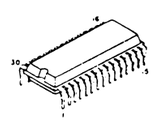
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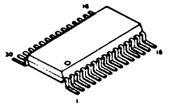
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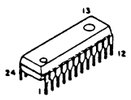
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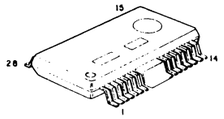
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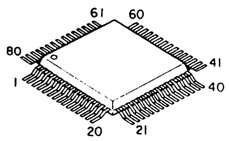
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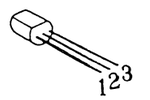
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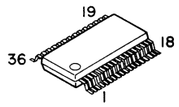
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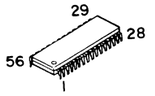
HA12182NT

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

5/5

RXD-C3/C3L

KENWOOD

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